

# **SERVICE NOTES**

First Edition

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## SPECIFICATIONS / 仕様

●Controls : MIC GAIN 1 Knob, MIC GAIN 2 Knob, BALANCE Knob, DELAY TIME Knob, FEEDBACK Knob, MODE Knob,

POWER Switch, LEVEL Switch

7 segments, 2 characters (LED)

• Jacks : MIC Jacks 1/2, INPUT Jacks L(MONO)/R, OUTPUT Jacks L(MONO)/R, EFFECT REMOTE Jack

●Nominal Input Level : +4dBm

• Input Impedance :  $10k\Omega$  (MIC 1/2)  $47k\Omega$  (INPUT L/R)

●Nominal Output Level : LINE(+4dBm)/INST(-20dBm)/MIC(-40dBm)

(selectable with LEVEL Switch) (Load Impedance:100k Ω)

1kΩ (LEVEL Switch:INST (-20dBm)) 600Ω (LEVEL Switch:MIC (-40dBm))

**AD Conversion** : 16 bit Linear 128 times Oversampling  $\triangle \Sigma$  modulation

Adaptive Focus Method

●DA Conversion : 16bit Linear

●Dynamic Range : 114dB or greater (direct:1kHz) 90dB or greater (effect:1kHz)

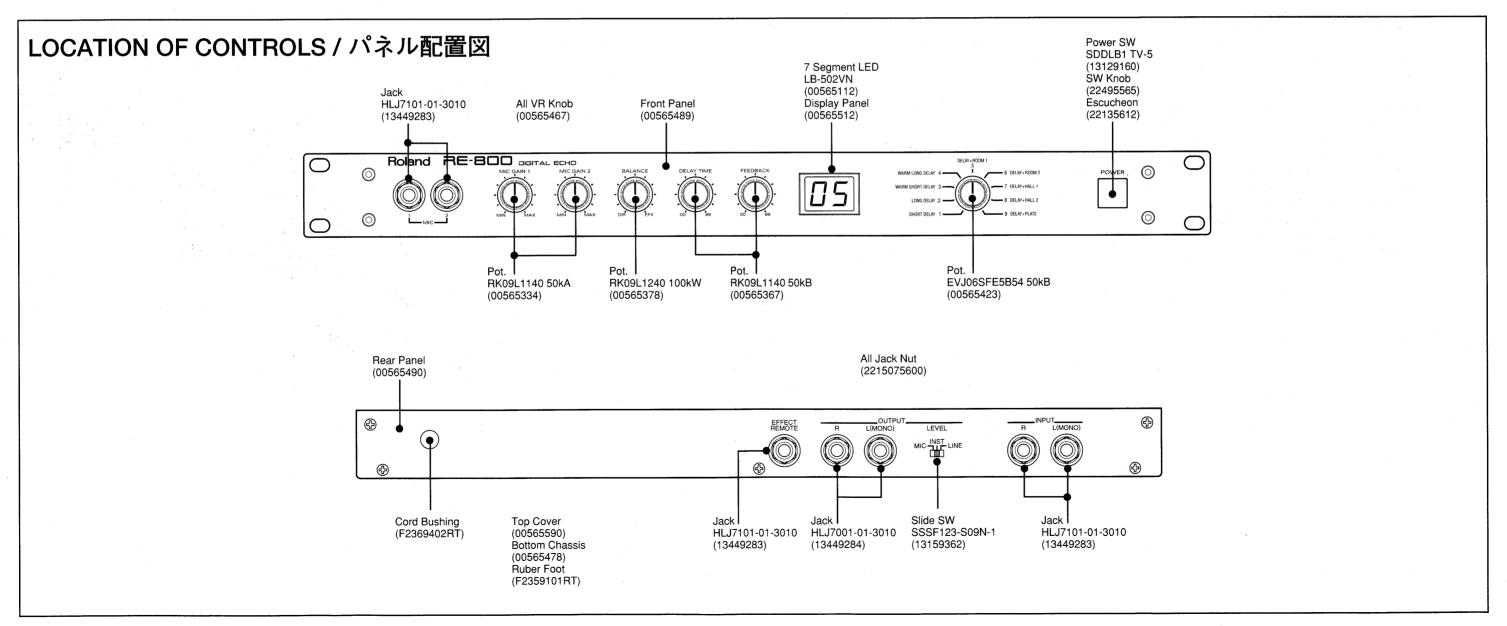
● Power Supply : AC 100V, AC 117V, AC 230V, AC 240V ● Power Consumption : 6.5W (AC 100V, AC 117V, AC 230V, AC 240V)

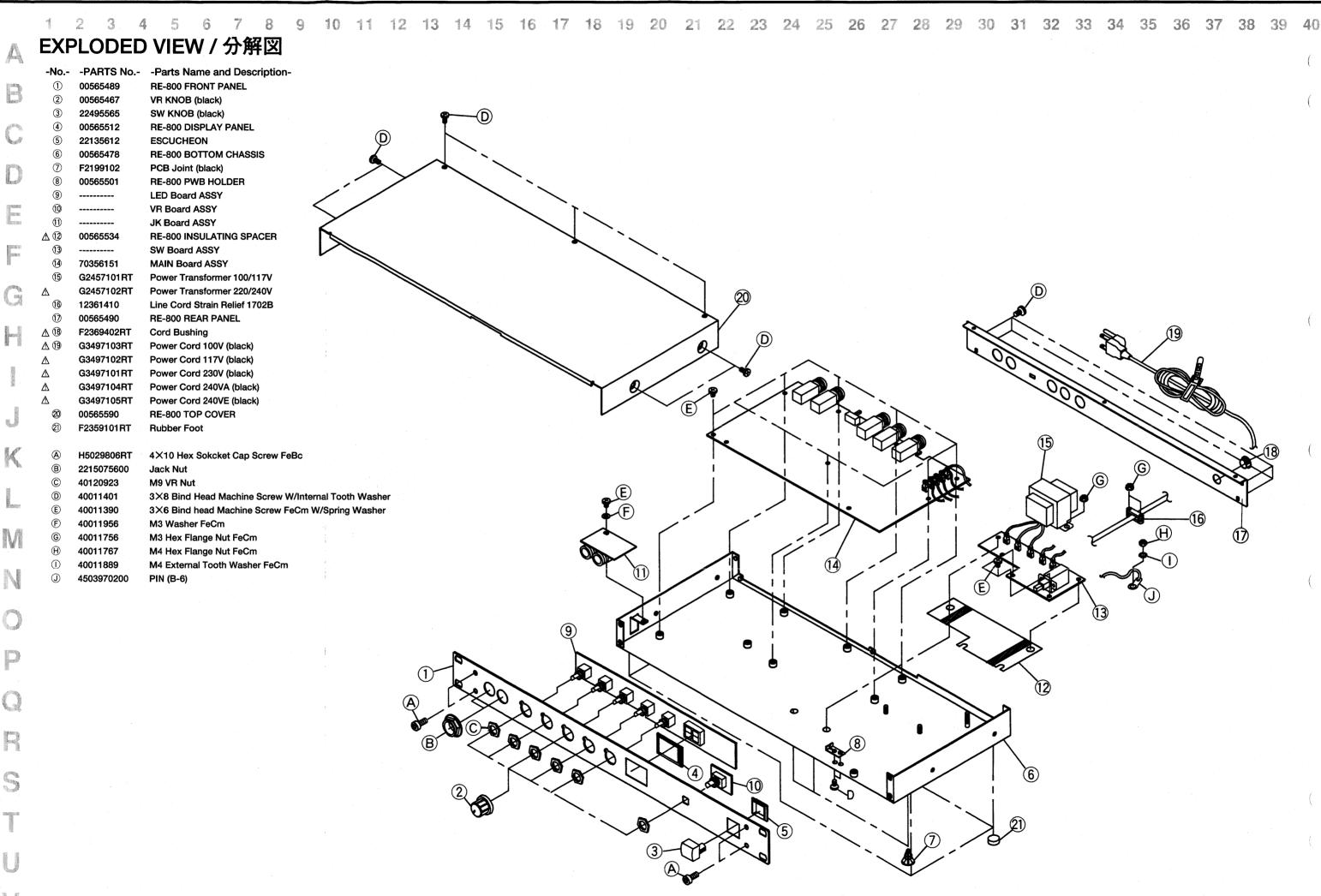
**Obline** :  $482(W) \times 207(D) \times 44(H) \text{ mm}$  $19(W) \times 8 \cdot 3 / 16(D) \times 1 \cdot 3 / 4(H) \text{ inches}$ 

●Weight : 2.5kg/5lbs 9oz

• Accessories : Owner's Manual Japanese (00565167)

: Owner's Manual English / Mandarin (00565156)





MN

MN

MN

MN

MN

MN MN MN

LD MN

LD

LD LD VR MN

MN

MN

X1

X2

## PARTS LIST / パーツリスト

### SAFETY PRECAUTION:

The parts marked △ have safety-related characteristics. Use only listed parts for replacement.

#### 安全上の注意:

CONSIDERATIONS ON PARTS ORDERING

When ordering any parts listed in the parts list, please specify the following items in the order sheet.

QTY PART NUMBER DESCRIPTION MODEL NUMBER

Ex. 10 22575241 Sharp key C-20/50

15 2247017300 Knob (orange) DAC-15D

Failure to completely fill the above items with correct number and description will result in delayed or even undelivered replacement.

Failure to completely fill the above items with correct number and description will r undelivered replacement.
パーツ発注に関するお願い
オーダーシートには、必ず下記の4項目は正確に記入して下さい。(例外は除く)
必要数 パーツナンバー 品名 使用機種
例 10 22575241 Sharp key C-20/50
15 2247017300 Knob (orange) DAC-15D

MN ==> MAIN BOARD ASSY LD ==> LED BOARD ASSY SW ==> SW BOARD ASSY VR ==> VR BOARD ASSY JK ==> JACK BOARD ASSY

#### CASING / ケース

00565512	RE-800 DISPLAY PANEL
00565590	RE-800 TOP COVER
00565478	RE-800 BOTTOM CHASSIS
00565489	RE-800 FRONT PANEL
00565490	RE-800 REAR PANEL
00565501	RE-800 PWB HOLDER
00565534	RE-800 INSULATING SPACER
22135612	ESCUCHEON

INDUCTOR, COIL, FILTER / インダクタ、コイル、フィルター

BL02RN2-R62

### KNOB, BUTTON / ツマミ、ツマミ

00565467	VR KNOB
22495565	SW KNOB

### SWITCH/スイッチ

13129160	SDDLB1 TV-5	Power Switch	SW
13159362	SSSF123-S09N-1	Slide Switch	MN

### JACK, SOCKET / ジャック、ソケット

•			
13449283	HLJ7101-01-3010	MIC 1/2, INPUT L/R, REMOTE	JK, MN
13449284	HLJ7001-01-3010	OUTPUT L/R	MN

### PCB ASSY / 基板完成品

70356151	MAIN BOARD ASSY	(PCB 0056513	34)
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NOTE1: Replacement MAIN BOARD ASSY includes the LED BOARD ASSY, SW BOARD ASSY, VR BOARD ASSY, JACK BOARD ASSY. 注注 補修用MAIN BOARD ASSYは、LED BOARD ASSY, SW BOARD ASSY, VR BOARD ASSY, JACK BOARD ASSY を含みます。

## IC 00

22445240

00565078	M37470M2-314SP	CPU Mask	IC11	MN
00346723	TC25SC080AU-104	DSP	IC12	MN
00565067	M5M44256BP-7	DRAM	IC14	MN
or 00341378	MSM514256B-70RS			
00347145	LC8390M	A/D Convertor	IC9	MN
00347156	$\mu$ PD6379	D/A Convertor	IC10	MN
00565089	M51951A	RESET	IC13	MN
00670801	NJM2100D	OP Amp	IC6	MN
00565812	M5220P	OP Amp	IC1	MN
15189251	M5218AP	OP Amp	IC2, 3, 4, 5, 7	MN
00565123	M66310P	LED Driver	IC19	LD
15199212	TA7805S	Regulator	IC16	MN
15199147	M5F7815L-01	Regulator	IC17	MN
15199148	M5F7915L-01	Regulator	IC18	MN
				•

EMI Filter

L1, 2, 3, 4

MN

15119144	2SA-1048GR			Q5
15119143	2SA-1335GR			Q1, 2
15129179	2SC-2458GR			Q6, 7
15129210	2SC2878-A			Q3, 4
DIODE / ダイオート	<b>:</b>			
15019126	1SS133			
15019209RT	1N4004		1	D15, 16, 17, 18
15039111RT	PB154M		Bridge Diode	D19
15019428	RD7.5ESB2-T		Zenner Diode	D10
00565112	LB-502VN		7Segment LED	LED1
15029293RT	L-32HDSL		LED (red)	LED2, 3
or 15029198	LN-28RP			
POTENTIOMETER	/ボリュ-ム			
00565367	RK09L1140	-	50kB	 VR4, 5
00565334	RK09L1140		50kA	VR1, 2
00565378	RK09L1140		$100 \text{kW} \times 2$	VR3
00565423	EVJ06SFE5B54		50kB with Detent	VR6
00565101	RH0615CJ3J		Trimmer 2.2k	RT1
CRVSTAL RESON	ATOR / クリスタル、発掘	<b>怎</b> 子		
OTTIOTAL, ILLOON	ハロロン ノフハブル(元)	, , , , , , , , , , , , , , , , , , ,	·	

## WIRING, CABLE / ワイヤリング、ケーブル

AT-49 24.576MHz

CST4.00MGW

TRANSISTOR / トランジスター

00565545 RE-800 WIRING A 3P	CN1	LD, MN
00565556 RE-800 WIRING B 9P	CN2	LD, MN
00565567 RE-800 WIRING C 9P	CN3	LD, MN
00565578 RE-800 WIRING SHIELD	MG1,2	JK, MN

Xtal

Cera rock

#### SCREW / ネジ類

00565090

15299159

40011390	3×6mm Binding head FeCm Spring Washer
40011401	3×8mm Binding head FeBc Internal Tooth Wash
H5019410ZL	3×20mm Binding head FeBc Spring Washer
H5029806RT	4×10mm Hex Sokcket Cap Screw FeBc
40011945	M4×0.45 Internal Tooth Washer FeBc
40011756	M3 Hex Flange Nut FeCm
2215075600	JACK NUT
	M9 VR Nut
40011956	M3 Washer FeCm
40011767	M4 Hex Flange Nut FeCm
40011889	M4 External Tooth Washer

### MISCELLANEOUS / その他

F2359101RT	Rubber Foot	Heattsink
4503970200	PIN (B-6)	
H5039701RT	1741BS-2	Quick Slide Terminal
12469158	PC2116-7-PT	Heatsink
00565145	RE-800 Packing Case	
G2647101RT	RE-1000 Pad	

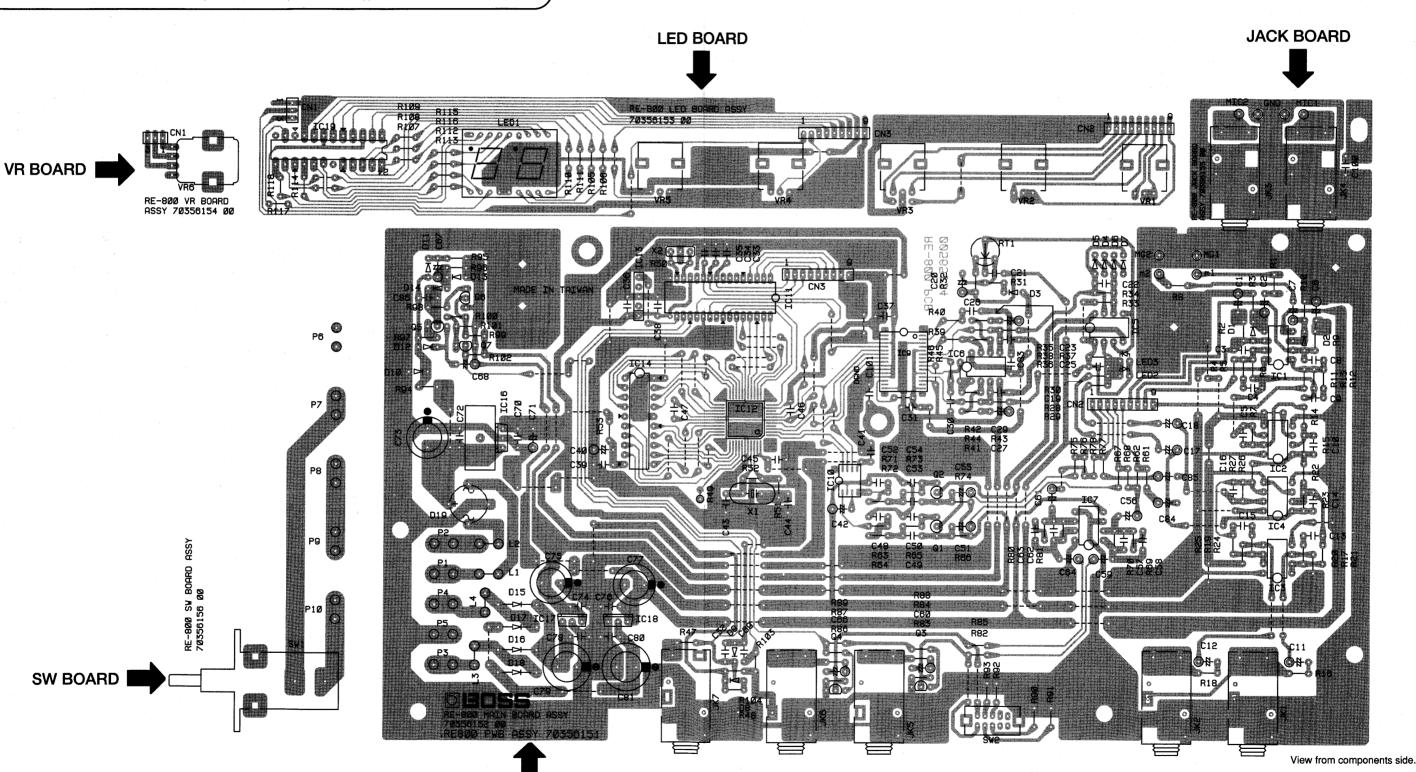
### ACCESSORIES / 標準付属品

00565167	RE-800 MANUAL (Japanese)
00565156	RE-800 MANUAL (English/Mandarin)

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

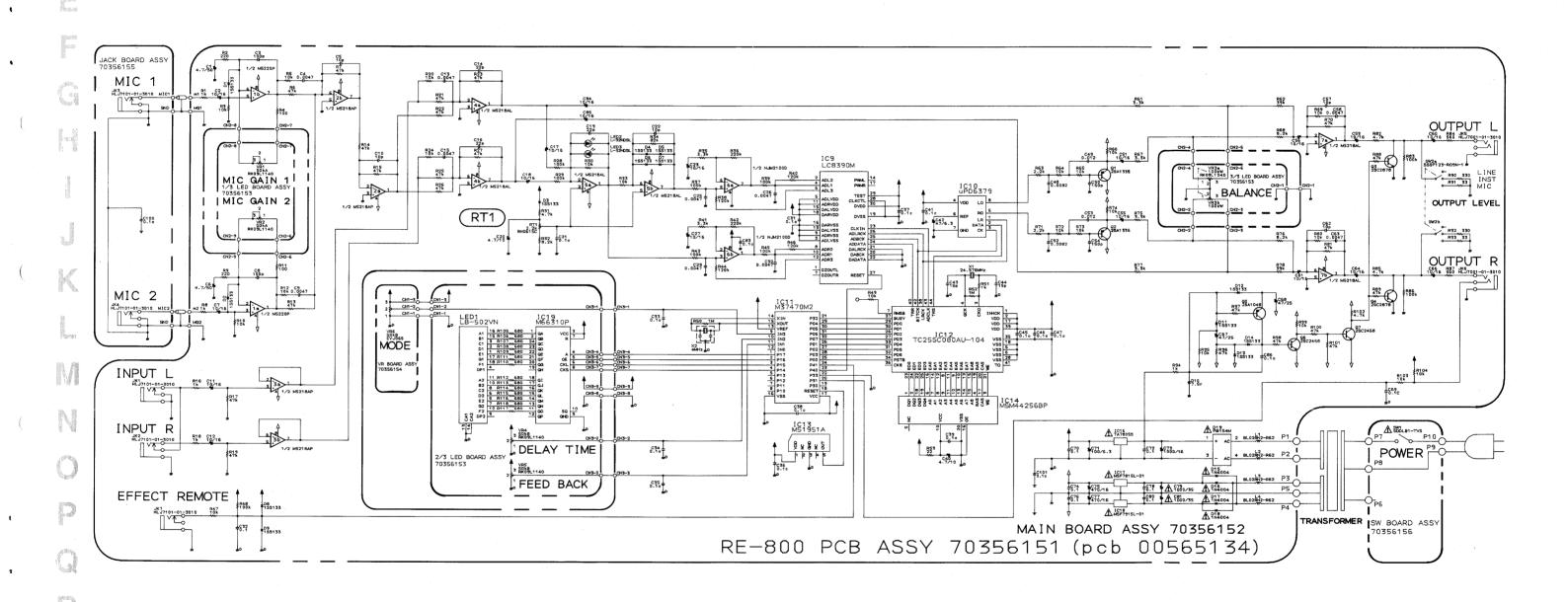
ASSY 70356151 (PWB 00565134)

Replacement MAIN BOARD ASSY includes the LED BOARD ASSY, SW BOARD ASSY, VR BOARD ASSY, JACK BOARD ASSY. 補修用MAIN BOARD ASSYは、LED BOARD ASSY, SW BOARD ASSY, VR BOAD ASSY, JACK BOARD ASSYを含みます。



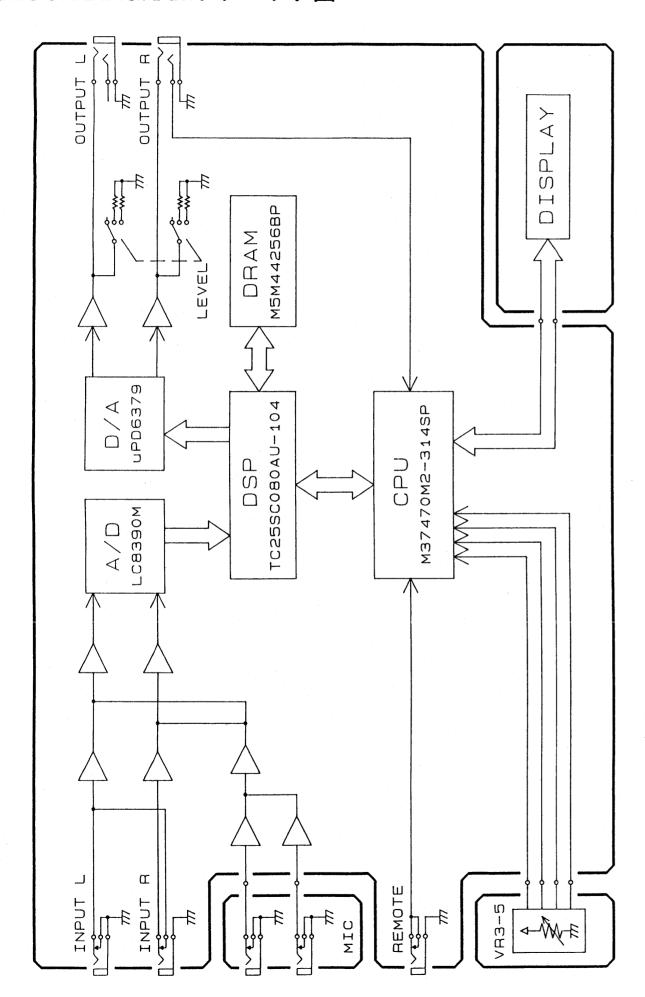
MAIN BOARD ASSY 70356151

# CIRCUIT DIAGRAM / 回路図



2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

# BLOCK DIAGRAM / ブロック図



## **ADJUSTMENT**

### Check OUTPUT Waveform

- 1. Feed the signal to INPUT L of the RE-800.
- 2. Connect the scope to OUTPUT L of the RE-800.
- 3. Set the controls and adjust RT1 on MT Board for the waveform as shown below.

# 調整仕様

### 出力波形のチェック

- 1. INPUTにオーディオ発振器を接続します。
- 2. OUTPUT Lにオシロスコープを接続します。
- 3. セッティングして下図のような波形になるようにRT1を調節します。

INPUT L	SET CONTROLS	OUTPUT L
	MODE :1 DELAY TIME :Min FEEDBACK :Min BALANCE :EFX	NG
200Hz 20mVp-p		GOOD
		NG